

Site: Avenue O Project#: 71280.102  
Case: 21882 SDG: EW46 Date: 1-30-95  
Data Validation Data Validator: Tanya Balla

Data was qualified according to the results and findings described in the data narrative. The information in this narrative was validated and the calculations are provided in the attached pages. Data qualifiers were also applied to the results based on calibration outliers, surrogate recoveries and other appropriate results.

Validation was accomplished through the use of USEPA National Functional Guidelines for Organic Data Review (6/91) and USEPA Region 5 Standard Operating Procedure for Validation of CLP Organic Data (August 25, 1993 revision). Calculations did not reveal any discrepancies other than those noted in the following pages.

The influence of sample bias for SSI and ESI data is indicated following each qualification. Bias is indicated by an upward arrow for high bias, a downward arrow for low bias and with unkbias for unknown bias. The sample bias for J qualifiers that are placed by the lab are of unknown bias. The sample bias designation for each J qualification is given in the following pages.

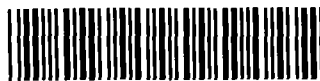
Additional Comments:

The cooler containing the VOA samples arrived at the lab one day late. The cooler was at 55°F. ~~At~~ VOA samples are estimated J, low bias for EWW47, EWW50, EWT80, EWT93, 98, EWT72, EWX82 and EWX88. Only this qualification (for J's) was applied to the VOA's.

Several pesticide samples were qualified unusable, R, due to <sup>improper</sup> ~~surrogate~~ dilutions.

checked - SM 2/6/95

US EPA RECORDS CENTER REGION 5



412402

Site: Avenue O Project#: 71280.102  
Case: 21882 SDG: EW46 Date: 7/1/94

1. Holding Times 15 soil and 4 water

TB 7/1/94 All samples were extracted and analyzed within the specified holding times according to the EPA reviewer.  
See attached pages for qualification.

2. GC/MS Tuning and GC Instrument Performance

TB 7/1/94 Tuning and instrument performance checks were satisfactory as stated by the EPA reviewer in the narrative.  
See attached pages for qualification.

3. Calibration

(calculations attached)

Calibration outliers are listed on the outlier forms for each parameter. All compounds that require qualification due to calibration outliers are qualified with a J for estimate and have an unknown bias. Samples and compounds that require qualification are listed on the calibration outlier pages in the EPA narrative.

VOA

TB 7/1/94 No calibration outliers.  
See EPA narrative for samples and compounds to be qualified and attached pages for calculations.

SVOA

TB 7/1/94 No calibration outliers.  
See EPA narrative for samples and compounds to be qualified and attached pages for calculations.

Pest/PCB

TB 7/1/94 No calibration outliers.  
See EPA narrative for samples and compounds to be qualified and attached pages for calculations.

4. Blanks

VOA

\_\_\_\_ Samples were qualified appropriately by the EPA reviewer for VOA blank contaminants. See the narrative for sample and compound qualifications.  
\_\_\_\_ See the attached pages for additional VOA blank qualifications or corrections.

SVOA

\_\_\_\_ Samples were qualified appropriately by the EPA reviewer for SVOA blank contaminants. See the narrative for sample and compound qualifications.  
\_\_\_\_ See the attached pages for additional SVOA blank qualifications or corrections.

Pest/PCB

Samples were qualified appropriately by the EPA reviewer for Pest/PCB blank contaminants. See the narrative for sample and compound qualifications.

See the attached pages for additional Pest/PCB blank qualifications or corrections.

5. Surrogate Recovery

VOA

VOA surrogate recoveries are within acceptable limits, no qualification is necessary.

TB 7/1/94

See attached pages and narrative for samples and compounds qualified for unacceptable VOA surrogate recovery.

SVOA

SVOA surrogate recoveries are within acceptable limits, no qualification is necessary.

TB 7/1/94

See attached pages and narrative for samples and compounds qualified for unacceptable SVOA surrogate recovery.

Pest/PCB

Pest/PCB surrogate recoveries are within acceptable limits, no qualification is necessary.

TB 7/1/94

See attached pages and narrative for samples and compounds qualified for unacceptable Pest/PCB surrogate recovery.

6. MS/MSD and RPD (Laboratory Control Sample)

See attached pages for calculations.

VOA

TB 7/1/94

VOA MS/MSD recoveries and RPD are within acceptable limits. See attached pages and narrative for VOA compounds to be qualified in the unspiked sample due to unacceptable MS/MSD recoveries and/or RPD.

SVOA

TB 7/1/94

SVOA MS/MSD recoveries and RPD are within acceptable limits. See attached pages and narrative for SVOA compounds to be qualified in the unspiked sample due to unacceptable MS/MSD recoveries and/or RPD.

Pest/PCB

TB 7/1/94

Pest/PCB MS/MSD recoveries and RPD are within acceptable limits.

See attached pages and narrative for Pest/PCB compounds to be qualified in the unspiked sample due to unacceptable MS/MSD recoveries and/or RPD.

## 7. Field Blanks, Field Duplicates and other QC

Field blanks and other QC are evaluated in the QC section. See the attached table comparing duplicate concentrations. No qualification of the sample results is made based on field duplicate recoveries per Region 5 Standard Operating Procedure for Validation of CLP Organic Data.

TB 7/1/94 There were no duplicates for any of the matrices.

### VOA

\_\_\_\_ Duplicate results were acceptable (no conc. difference of 5X or greater).  
\_\_\_\_ See attached table for unacceptable duplicate results.

### SVOA

\_\_\_\_ Duplicate results were acceptable (no conc. difference of 5X or greater).  
\_\_\_\_ See attached table for unacceptable duplicate results.

### Pest/PCB

\_\_\_\_ Duplicate results were acceptable (no conc. difference of 5X or greater).  
\_\_\_\_ See attached table for unacceptable duplicate results.

## 8. Internal Standards

VOA  
TB 7/1/94 All internal standards met QC requirements according to the EPA reviewer.  
\_\_\_\_ See attached pages for qualification of samples and compounds.

SVOA  
TB 7/1/94 All internal standards met QC requirements according to the EPA reviewer.  
\_\_\_\_ See attached pages for qualification of samples and compounds.

Pest/PCB  
TB 7/1/94 All Pest/PCB QC requirements were met according to the EPA reviewer.  
\_\_\_\_ See attached pages for qualification of samples and compounds.

## 9. Compound Quantification and Reported Detection Limits

\_\_\_\_ All target compounds and TICs were properly reported in the volatile, semi-volatile, and pesticide fractions; therefore data is acceptable according to the EPA reviewer.  
TB 7/1/94 See the attached pages for samples and compounds to be qualified.

## 10. Compound Identification

\_\_\_\_ Target compounds and TICs were identified by 'best fit' library search method and appear to be correct according to the EPA reviewer.  
TB 7/1/94  
skt See attached pages for additional comments.

## 11. System Performance

TB 7/1/94  
\_\_\_\_ Acceptable according to the EPA reviewer.  
See attached pages for additional comments and/or deviations.

## 12. Overall Case Assessment

TB 7/1/94 No additional qualifications according to the EPA reviewer.  
See attached pages for additional qualifications.

## Blank Analysis

TB 7/1/94 There were no field or trip blanks.  
See the blank analysis section for sample and compound qualifications based on blank results.